Zehui Mao

List of Publications by Year
in descending order

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79 papers	1,341 citations	394421 19 h-index	361022 35 g-index
79 all docs	79 docs citations	79 times ranked	1223 citing authors

#	Article	IF	Citations
1	H_infty-Filter Design for a Class of Networked Control Systems Via Tâ€“S Fuzzy-Model Approach. IEEE Transactions on Fuzzy Systems, 2010, 18, 201-208.	9.8	158
2	Deep PCA Based Real-Time Incipient Fault Detection and Diagnosis Methodology for Electrical Drive in High-Speed Trains. IEEE Transactions on Vehicular Technology, 2018, 67, 4819-4830.	6.3	137
3	Adaptive Fault-Tolerant Sliding-Mode Control for High-Speed Trains With Actuator Faults and Uncertainties. IEEE Transactions on Intelligent Transportation Systems, 2020, 21, 2449-2460.	8.0	77
4	Sliding mode observer based incipient sensor fault detection with application to high-speed railway traction device. ISA Transactions, 2016, 63, 49-59.	5.7	76
5	Protocol and Fault Detection Design for Nonlinear Networked Control Systems. IEEE Transactions on Circuits and Systems II: Express Briefs, 2009, 56, 255-259.	3.0	72
6	Sliding Mode Observer-Based Fault Estimation forÂNonlinear Networked Control Systems. Circuits, Systems, and Signal Processing, 2011, 30, 1-16.	2.0	67
7	Incipient Fault Detection for Traction Motors of High-Speed Railways Using an Interval Sliding Mode Observer. IEEE Transactions on Intelligent Transportation Systems, 2019, 20, 2703-2714.	8.0	65
8	Sensor Fault Detection for Rail Vehicle Suspension Systems With Disturbances and Stochastic Noises. IEEE Transactions on Vehicular Technology, 2017, 66, 4691-4705.	6.3	64
9	Observer-based fault-tolerant control for a class of networked control systems with transfer delays. Journal of the Franklin Institute, 2011, 348, 763-776.	3.4	54
10	Adaptive Compensation of Traction System Actuator Failures for High-Speed Trains. IEEE Transactions on Intelligent Transportation Systems, 2017, 18, 2950-2963.	8.0	49
11	Incipient Voltage Sensor Fault Isolation for Rectifier in Railway Electrical Traction Systems. IEEE Transactions on Industrial Electronics, 2017, 64, 6763-6774.	7.9	46
12	Robust decentralised load frequency control for interconnected time delay power systems using sliding mode techniques. IET Control Theory and Applications, 2020, 14, 470-480.	2.1	38
13	Adaptive Backstepping Based Fault-tolerant Control for High-speed Trains with Actuator Faults. International Journal of Control, Automation and Systems, 2019, 17, 1408-1420.	2.7	37
14	Adaptive Actuator Compensation of Position Tracking for High-Speed Trains With Disturbances. IEEE Transactions on Vehicular Technology, 2018, 67, 5706-5717.	6.3	33
15	Incipient Fault Diagnosis for High-Speed Train Traction Systems via Stacked Generalization. IEEE Transactions on Cybernetics, 2022, 52, 7624-7633.	9.5	32
16	A fault-tolerant control framework for a class of non-linear networked control systems. International Journal of Systems Science, 2009, 40, 449-460.	5.5	28
17	Fault-Tolerant Control for Systems With Unmatched Actuator Faults and Disturbances. IEEE Transactions on Automatic Control, 2021, 66, 1725-1732.	5.7	28
18	Generalized Regular Form Based SMC for Nonlinear Systems With Application to a WMR. IEEE Transactions on Industrial Electronics, 2017, 64, 6714-6723.	7.9	27

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19	Adaptive Control Design and Evaluation for Multibody High-Speed Train Dynamic Models. IEEE Transactions on Control Systems Technology, 2021, 29, 1061-1074.	5.2	20
20	Fault Detection for a Class of Nonlinear Networked Control Systems with Markov Transfer Delays and Stochastic Packet Drops. Circuits, Systems, and Signal Processing, 2015, 34, 1211-1231.	2.0	18
21	Fault diagnosis for a class of active suspension systems with dynamic actuatorsâ€™ faults. International Journal of Control, Automation and Systems, 2016, 14, 1160-1172.	2.7	18
22	Incipient sensor fault estimation and accommodation for inverter devices in electric railway traction systems. International Journal of Adaptive Control and Signal Processing, 2017, 31, 785-804.	4.1	18
23	Fault Detection for a Class of Nonlinear Networked Control Systems with Communication Constraints. International Journal of Control, Automation and Systems, 2018, 16, 256-264.	2.7	17
24	Fault Detection for A Class of Closed-loop Hypersonic Vehicle System via Hypothesis Test Method. International Journal of Control, Automation and Systems, 2021, 19, 350-362.	2.7	13
25	Fault detection for a class of nonlinear networked control systems. International Journal of Adaptive Control and Signal Processing, 2010, 24, 610-622.	4.1	12
26	Sliding mode control for a class of nonlinear systems with application to a wheeled mobile robot. , 2015, , .		11
27	Modelling and fault tolerant control for near space vehicles with vertical tail loss. IET Control Theory and Applications, 2014, 8, 718-727.	2.1	9
28	Fault Accommodation For a Class of Nonlinear Flight Control Systems. , 0, , .		8
29	Adaptive robust fault-tolerant control for linear MIMO systems with unmatched uncertainties. International Journal of Control, 2017, 90, 2253-2269.	1.9	8
30	Adaptive Sliding Mode Observer for Nonlinear Interconnected Systems with Time Varying Parameters. Asian Journal of Control, 2019, 21, 405-414.	3.0	8
31	Distributed Adaptive Fault-Tolerant Formation Control for Heterogeneous Multiagent Systems With Communication Link Faults. IEEE Transactions on Aerospace and Electronic Systems, 2022, , 1-11.	4.7	7
32	High gain observer-based fault estimation for nonlinear networked control systems. , 2008, , .		6
33	Data-based incipient actuator fault detection and diagnosis for three-phase PWM voltage source inverter. , 2016, , .		6
34	Fault-Tolerant Formation Tracking Control for Heterogeneous Multiagent Systems with Directed Topology. Research on World Agricultural Economy, 2021, 01, 2150001.	1.3	6
35	Adaptive Observer Design for a Class of Nonlinear Interconnected Systems with Uncertain Time Varying Parameters. IFAC-PapersOnLine, 2017, 50, 1421-1426.	0.9	5
36	Adaptive observer design for nonlinear interconnected systems by the application of LaSalle's theorem. International Journal of Adaptive Control and Signal Processing, 2020, 34, 1559-1571.	4.1	5

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37	Decentralised state feedback stabilisation for nonlinear interconnected systems using sliding mode control*. International Journal of Systems Science, 2022, 53, 1017-1030.	5.5	5
38	Fault-tolerant control design for a kind of nonlinear networked control system with communication constraints. , 2009, , .		4
39	Observerâ€based Reliable Control for Discrete Time Systems: An Average Dwell Time Approach. Asian Journal of Control, 2012, 14, 1625-1633.	3.0	4
40	Trajectory tracking control of a two-wheeled mobile robot using sliding mode techniques. , 2015, , .		4
41	Fault-tolerant Control for MIMO Networked Control Systems with Uncertainties. , 2006, , .		3
42	Discrete wavelet transform based data trend prediction for marine diesel engine. , 2017, , .		3
43	Observer based fault estimation for inverter devices of traction systems with disturbance. , 2017, , .		3
44	EEMD based incipient fault diagnosis for sensors faults in high-speed train traction systems. , 2017, , .		3
45	Cooperative fault estimation for a class of heterogeneous multiâ€agents with stochastic nonlinearities based on finite impulse response filter. International Journal of Robust and Nonlinear Control, 2022, 32, 4696-4715.	3.7	3
46	Adaptive backstepping fault tolerant control for near space vehicles. , 2014, , .		2
47	Multiple-model Based fault diagnosis for actuators of rail vehicle suspension. , 2015, , .		2
48	Decentralised sliding mode control for nonlinear interconnected systems in the regular form. , 2016, , .		2
49	Decentralized Sliding Mode LFC for Nonlinear Interconnected Power System with Time Delay. , 2018, , .		2
50	A novel unknown input observerâ€based fault detection with application to a twoâ€stage chemical reactor. International Journal of Adaptive Control and Signal Processing, 2021, 35, 1789-1804.	4.1	2
51	Actuator fault detection for the discreteâ€time switched systems based on delta operator approach. Optimal Control Applications and Methods, 2022, 43, 476-494.	2.1	2
52	Resilient Tracking Control for Unmanned Helicopter Under Variable Disturbance and Input Perturbation. International Journal of Control, Automation and Systems, 2022, 20, 147-159.	2.7	2
53	Observer-based fault detection for Rail Vehicle Suspension Systems. , 2014, , .		1
54	Variable structure observer for a class of nonlinear large-scale interconnected systems with uncertainties. , 2016, , .		1

#	Article	IF	Citations
55	Adaptive position tracking control of high-speed trains with piecewise dynamics. , 2017, , .		1
56	Decentralised Sliding Mode Control for Nonlinear Interconnected Systems in the Generalised Regular Form. IFAC-PapersOnLine, 2017, 50, 8850-8855.	0.9	1
57	Adaptive Position Tracking Compensation for High-Speed Trains with Actuator Failures * *This work was supported in part by the National Natural Science Foundation of China under Grant 61490703, Grant 61573180 and Grant 61374130.. IFAC-PapersOnLine, 2017, 50, 14266-14271.	0.9	1
58	Observer Based Fault Estimation for Induction Motor with Stator Inter-turn Short Circuit Faults and Disturbances. , 2019, , .		1
59	Zero dynamics analysis and adaptive tracking control of underactuated multibody systems with flexible links. International Journal of Control, 2021, 94, 1931-1943.	1.9	1
60	Decentralised Sliding Mode Tracking Control for a Class of Nonlinear Interconnected Systems**This work was supported by the National Natural Science Foundation of China under Grants 61922042 and 62020106003, China Scholarship Council for 3 years' study at the University of Kent, and Qing Lan Project.. , 2021, , .		1
61	Fault-Tolerant Control for Spacecraft under Actuator Fault via Zero-Sum Differential Game Theory. , 2021, , .		1
62	TD-GAT: Graph Neural Network for Fault Diagnosis Knowledge Graph. , 2021, , .		1
63	Construction and Reasoning Method of Fault Knowledge Graph with application of Engineering Machinery. , 2021, , .		1
64	Spacecraft attitude tracking control based on MPC and fractional-order sliding mode control. , 2022, , .		1
65	Fault Detection for Networked Control Systems with Time delays Based on Unknown Input Observer. , 2007, , .		0
66	H<inf>∞</inf> filter design for a class of networked control systems via T-S fuzzy model approach. , 2010, , .		0
67	Fault detection for a class of nonlinear networked control systems with transferred delays. , 2013, , .		0
68	Fault detection for a class of stochastic systems with unknown disturbance. , 2015, , .		0
69	Normal form and adaptive control of mimo non-canonical neural network systems. , 2016, , .		0
70	Observer based fault diagnosis for induction motor with sensor faults and disturbances. , 2017, , .		0
71	State and Parameter Estimation for a Class of Nonlinearly Parameterized Systems Using Sliding Mode Techniques. , 2018, , .		0
72	Fault Diagnosis for Stator Inter-turn Short Circuit Fault of Traction Motors under Closed-loop Structure. , 2019, , .		0

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73	Research on Fault Estimation and Fault-tolerant Control of Hypersonic Aircraft Based on Adaptive Observer. , 2019, , .		0
74	Fault Isolation Via Multiple-model Estimation for Traction Inverter with IGBT Open Circuit Fault. , 2019, , .		0
75	Actuator fault detection for a twoâ€stage chemical reactor based on the functional observer approach. Canadian Journal of Chemical Engineering, 2022, 100, 800-810.	1.7	0
76	Life Prediction of Rolling Bearing using Temporal Convolution Network and Attention Mechanism. , 2021, , .		0
77	Decentralized Sliding Mode Control for Output Tracking of Large-Scale Interconnected Systems. , 2021, , .		0
78	Fault Diagnosis based on Domain Adaptive Multi-task learning Convolutional Neural Network. , 2021, , .		0
79	Fault-tolerant Formation for Multi-UAV via Improved Artificial Potential Field Method. , 2021, , .		0